

A comprehensive summary of current knowledge on the effects of nuclear weapons.

THE EFFECTS OF NUCLEAR WEAPONS

Replaces 1950 edition of "The Effects of Atomic Weapons" . . . much more extensive information . . . an essentially new presentation of weapons effects

The main purpose of this new handbook is to describe, within the limitations set by national security, the basic phenomena—blast, shock, and various radiations—and the most recent data concerning the effects associated with explosions of nuclear weapons. The information has been obtained from observations made following the wartime nuclear bombings in Japan and at the tests carried out at the Eniwetok Proving Grounds and the Nevada Test Site, as well as from experiments with conventional high explosives and mathematical calculations.

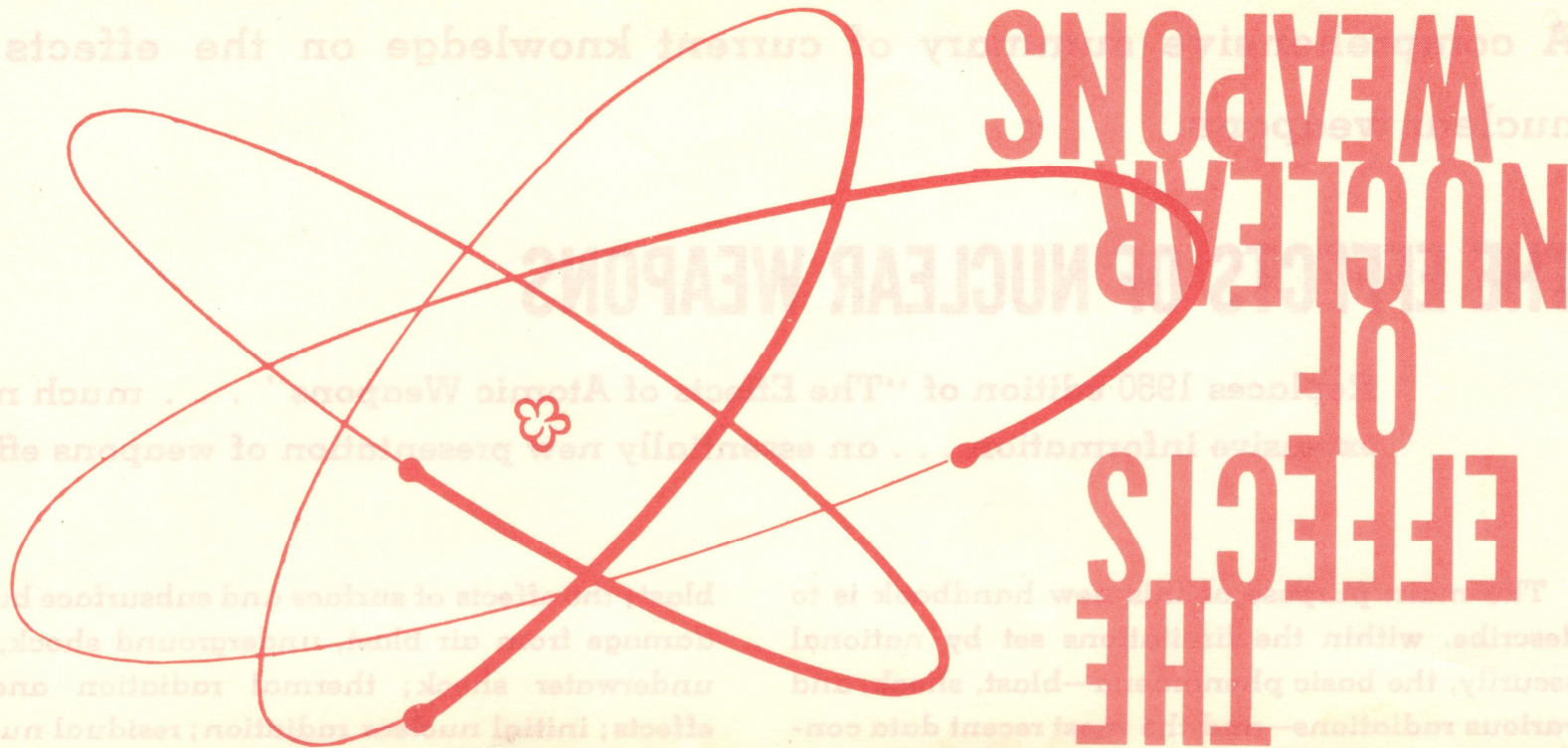
Intended for use in planning against possible nuclear attack, this volume discusses the general principles of nuclear explosions and their destructive effects. It provides descriptions of nuclear explosions in the air, on the surface, underground, and underwater; the air blast phenomena and effects; structural damage resulting from an air

blast; the effects of surface and subsurface bursts; damage from air blast, underground shock, and underwater shock; thermal radiation and its effects; initial nuclear radiation; residual nuclear radiation and fallout; world-wide fallout and long-term residual radiation; effects on personnel; and protective measures against the effects of nuclear explosions. Numerous charts, drawings, and before-and-after photographs add to the completeness of the text. A glossary, bibliography, and index are also included.

Designed to serve a wide audience, the textual material of most of the chapters is presented in two parts: the first consisting of a general treatment of a particular topic in a less technical manner, whereas the second part contains the more technical aspects.

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